

ABSTRACT OF THE DISCLOSURE

A communication apparatus which effectively optimizes the route for each call connection without causing any adverse effect on other existing sessions and thus contributes to better quality and reliability of telecommunications services. A source-side routing data manager collects information necessary for path calculation, evaluates every possible path with the collected information, and manages routing data that is obtained through the path evaluation. A source-side best path finder selects a best path from among those listed in the routing data. A connection releasing unit releases a particular connection when the source-side best path finder has found a new best path that is more suitable for that particular connection than the current path, while maintaining the connectivity of other existing calls. A new best path setting unit performs a call connection procedure by using the newly selected best path, after the connection releasing unit has released the current connection.

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